REPORT OF TAR AND NICOTINE CONTENT OF THE SMOKE OF 127 VARIETIES OF CIGARETTES
June 11, 1968

The Federal Trade Commission's laboratory has determined the tar (dry particulate matter) and total alkaloid (reported as nicotine) content of 127 varieties of cigarettes. Fifty-nine of these varieties were previously reported on November 20, 1967 and the balance (68) are now reported for the first time. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

1. Smoke cigarettes to 23 mm. butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.,

2. Base results on a test of 100 cigarettes per brand, or type,

3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection",

4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C. H. Sloan and B. J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content.

5. Determine and report the "tar" content after subtracting moisture and alkaloids (as Nicotine) from particulate matter.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes in each of 50 geographic locations throughout the country. The 59 varieties reported on November 20, 1967 were for the most part purchased in August of 1967 and the 68 varieties reported for the first time were for the most part purchased in January of 1968. All varieties of cigarettes were not available in each of the 50 geographic locations and in these cases one or more additional packages of cigarettes were purchased in those geographic locations where the respective

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varieties were available. The samples utilized in the tests were representative of the 127 varieties of cigarettes as available throughout the country at the times of purchase.

The results of this analytical work are shown in the accompanying table. This table differs from those reported on November 20, 1967 in that the average weight and butt length columns have been eliminated; types of cigarettes are more clearly described; tar figures have been rounded off to whole numbers and nicotine figures to tenths of milligrams. Figures representing the standard deviation of mean have been eliminated; accordingly, tar and nicotine figures in this table represent rounded off average without indication of their precision.

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Tar and Nicotine Content of One Hundred and Twenty-seven (127) Varieties of Domestic Cigarettes
(shown in alphabetic order)

Brand	Type	Tar	Nicotine
Alpine +	king size, filter menthol	21	1.2
Belair +	king size, filter menthol	22	1.4
Benson & Hedges	reg. size, filter (hard pack)	21	1.2
Benson & Hedges	king size, filter (hard pack)	20	1.3
Benson & Hedges +	100 mm, filter	22	1.3
Benson & Hedges +	100 mm, filter menthol	22	1.4
Brandon *	king size, non-filter	33	1.6
Bull Durham	king size, filter	30	1.6
Camel §	reg. size, non-filter	24	1.4
Camel §	king size, filter	21	1.3
Camel *	king size, filter menthol	18	1.1
Carlton §	king size, filter	7	.5
Cascade §	king size, filter menthol	8	.3
Cavalier *	king size, non-filter (hard pack)	25	1.4
Century +	100 mm, filter	25	1.3
Chesterfield §	reg. size, non-filter	23	1.2
Chesterfield §	king size, non-filter	29	1.5
Chesterfield §	king size, filter	22	1.2
Chesterfield §	king size, filter menthol	21	1.2
Chesterfield	101 mm, filter	23	1.2
Colony	100 mm, filter	28	1.4
Colony	100 mm, filter menthol	26	1.2
Coupon *	reg. size, non-filter	20	1.4
Devon *	king size, filter menthol	21	1.1
Domino	king size, non-filter	24	.9
Domino	king size, filter	22	.8
Domino §	king size, filter menthol	15	.7
Dover Longs*	100 mm, filter	24	1.5
Duke of Durham §	king size, filter	10	.4
DuMaurier +	king size, filter (hard pack)	22	1.4
English Ovals	reg. size, non-filter (hard pack)	26	1.6
English Ovals	king size, non-filter (hard pack)	32	1.9
Fatima	king size, non-filter	31	1.5
Frappe	king size, filter menthol	11	.4
Galaxy +	king size, filter	21	1.3
Gauloises	reg. size, non-filter	24	1.2
Gauloises	reg. size, filter	21	1.1
Half & Half	king size, filter	27	1.6
Helmar	king size, filter (hard pack)	23	1.3
Herbert Tareyton	king size, non-filter	33	1.5
Holiday	king size, non-filter	30	1.5
Holiday	king size, filter	29	1.5
Home Run	reg. size, non-filter	20	1.4
Kent +	reg. size, filter	15	.8
Kent +	king size, filter (hard pack)	18	.9
Kent §	king size, filter	17	1.1
Kent +§	100 mm, filter	23	1.5
King Sano +§	king size, filter	13	.4
King Sano +§	king size, filter menthol	14	.4
Kool +§	reg. size, non-filter menthol	26	1.8
Kool +§	king size, filter menthol	20	1.6
Lark	king size, filter	19	1.0
Life	king size, filter	12	.7
L & M §	reg. size, filter	19	.9
L & M §	king size, filter (hard pack)	19	1.1
L & M §	king size, filter	21	1.2
L & M +§	100 mm, filter	26	1.4
L & M §	100 mm, filter menthol	25	1.4
Lucky Strike §	reg. size, non-filter	26	1.6
Lucky Strike §	king size, filter	22	1.3
Lucky Strike §	king size, filter menthol	21	1.2
Lucky Strike +§	100 mm, filter	21	1.3
Lucky Strike +§	100 mm, filter menthol	19	1.0
Mapleton	reg. size, non-filter	22	.8

§ Denotes brands purchased in August and reported in November, 1967. Other brands were purchased in January and are reported for the first time.

+ Denotes brands which since picked up for testing, have undergone such changes as longer tipping paper or longer filters.

* Denotes brands which have been withdrawn or discontinued.

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(shown in alphabetic order)

Brand	Type	Tar	Nicotine
Mapleton	king size, filter	21	.8
Marlboro +§	king size, filter (hard pack)	20	1.3
Marlboro §	king size, filter	21	1.4
Marlboro §	king size, filter menthol	24	1.7
Marlboro +§	100 mm, filter	21	1.4
Marlboro +	100 mm, filter (hard pack)	22	1.3
Marvels §	reg. size, filter	4	.1
Marvels §	king size, non-filter	22	.8
Marvels +§	king size, filter	6	.2
Marvels	king size, filter menthol	5	.2
Montclair	king size, filter menthol	11	.6
Murad *	reg. size, non-filter (hard pack)	24	.9
Newport	king size, filter menthol	21	1.2
Newport	king size, filter menthol	22	1.3
Newport +	100 mm, filter menthol	23	1.3
Oasis	king size, filter menthol	21	1.1
Old Gold	reg. size, non-filter	21	1.1
Old Gold	king size, non-filter	27	1.5
Old Gold	king size, filter	20	1.0
Omar	reg. size, non-filter	25	1.2
Pall Mall §	king size, non-filter	27	1.6
Pall Mall +§	95 mm, filter (hard pack)	28	1.6
Pall Mall +§	95 mm, filter menthol (hard pack)	26	1.5
Pall Mall +§	100 mm, filter	23	1.6
Pall Mall +§	100 mm, filter menthol	22	1.5
Parliament +§	king size, filter (hard pack)	16	1.0
Parliament +§	king size, filter	16	1.1
Philip Morris §	reg. size, non-filter	23	1.5
Philip Morris Commander §	king size, non-filter	28	1.8
Philip Morris §	king size, filter	19	1.3
Philip Morris §	king size, filter menthol	20	1.3
Picayune	reg. size, non-filter	20	1.3
Piedmont	reg. size, non-filter	24	1.3
Players	reg. size, non-filter (hard pack)	32	1.7
Raleigh §	king size, non-filter	28	2.0
Raleigh +§	king size, filter	21	1.5
Salem §	king size, filter menthol	21	1.4
Salem +§	100 mm, filter menthol	27	1.7
Sano +§	reg. size, non-filter	21	.6
Silva Thins	100 mm, filter	15	.8
Spring +	100 mm, filter menthol	23	1.2
Stratford	king size, non-filter	22	.7
Stratford	king size, filter	20	.7
Stratford	king size, filter menthol	20	.7
Sweet Caporal	king size, filter	23	1.2
Tareyton §	king size, filter	18	1.1
Tareyton §	100 mm, filter	20	1.2
Tempo +	king size, filter	17	.7
True §	king size, filter	13	.7
True §	king size, filter menthol	13	.7
Tryon +	king size, filter	14	.8
Tryon +	king size, filter menthol	11	.7
Viceroy §*	king size, filter (hard pack)	21	1.4
Viceroy +§	king size, filter	21	1.4
Vogue (colors)	king size, filter (hard pack)	13	.4
Vogue (black)	king size, filter (hard pack)	19	.6
Wings	king size, filter	22	1.5
Winston §	king size, filter (hard pack)	21	1.2
Winston §	king size, filter	20	1.3
Winston +§	100 mm, filter	27	1.7
Winston +§	100 mm, filter menthol	25	1.7
York *	100 mm, filter	25	1.4
Yukon	king size, filter menthol	20	.7

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